Attorney Docket No. 10/668,472
Attorney Docket No. 10191/3280
RCE Reply to Final Office Action of February 2, 2007
(in lieu of Reply Brief to Answer of July 17, 2008)

Listing of the Claims:

Without prejudice, this listing of the claims replaces all prior versions and listings of the claims in the present application:

Listing of Claims:

1. (Currently Amended) A method for producing a conductive layered coating on an insulating substrate, comprising:

equipping, in selected regions, at least one surface of an electrically insulating substrate with a coating of an electrically highly conductive first metal, the coating being structured as conductor paths;

cleaning the at least one coated surface;

seeding the coating with seeds of a second metal;

depositing a layer including an alloy of the second metal onto the coating seeded with the seeds of the second metal;

firing the substrate deposited with the layer of the second metal to form the conductive layered coating, the firing being performed at a temperature below the melting point of the first metal, the second metal and the alloy; and

contacting a gold bonding wire to the conductive layered coating, wherein: the substrate includes [[an]] a low-temperature co-fired ceramic (LTCC), the first metal includes silver, and the second metal includes palladium.

- 2. (Canceled).
- 3. (Canceled).
- 4. (Previously Presented) The method as recited in Claim 1, wherein:

in the depositing of the layer of the second metal, palladium is deposited at a ratio of from 0.1 to 50% percent by weight of the alloy.

5. (Previously Presented) The method as recited in Claim 1, wherein:

in the depositing of palladium, the palladium is deposited in such a way that a concentration of greater than 20% percent by weight palladium in the alloy results.

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- 6. (Original) The method as recited in Claim 1, wherein:
 the seeding and the depositing are performed according to an electroless procedure.
- 7. (Original) The method as recited in Claim 1, wherein:
 the firing is performed at a temperature between 830 and 870°C.
- 8. (Original) The method as recited in Claim 1, wherein: the firing is performed at a temperature of 850°C.
- 9-10. (Canceled).
- 11. (Previously Presented) A method for producing a conductive layered coating on an electrically insulating substrate, comprising:

equipping, in selected regions, at least one surface of the electrically insulating substrate with a coating of a first metal structured as a conductor path;

cleaning the at least one coated surface;

seeding the at least one coated surface with seeds of a second metal;

depositing a layer including an alloy of the second metal onto the at least one seeded coated surface; and

firing the substrate deposited with the layer to form the conductive layered coating, the firing being performed at a temperature below the melting point of the first metal, the second metal and the alloy.

- 12. (Currently Amended) The method of claim 11, wherein the substrate includes an LTCC;
- 13. (Currently Amended) The method of claim 12, wherein the first metal includes silver and the second metal includes palladium.
- 14. (Previously Presented) The method of claim 13, further comprising: contacting a gold bonding wire to the conductive coating.

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- 15. (New) The method of Claim 13, wherein the low-temperature co-fired ceramic (LTCC) is a glass-ceramic mixture that, together with metallization pastes made from silver (Ag), silver-paladium (AgPd) or gold (Au), is fired at a relatively low temperature that is below the melting point of the metallization pastes.
- 16. (New) The method of Claim 13, wherein a nickel bath is not used and a gold bath is not used, and wherein the low-temperature co-fired ceramic (LTCC) is a glass-ceramic mixture that, together with metallization pastes made from silver (Ag), silver-paladium (AgPd) or gold (Au), is fired at a relatively low temperature that is below the melting point of the metallization pastes.
- 17. (New) The method of Claim 16, wherein:

in the depositing of the layer of the second metal, palladium is deposited at a ratio of from 0.1 to 50% percent by weight of the alloy,

in the depositing of palladium, the palladium is deposited in such a way that a concentration of greater than 20% percent by weight palladium in the alloy results, and

the firing is performed at a temperature between 830 and 870°C.

- 18. (New) The method of Claim 17, wherein the seeding and the depositing are performed according to an electroless procedure, and the firing is performed at a temperature of 850°C.
- 19. (New) The method of Claim 1, wherein the low-temperature co-fired ceramic (LTCC) is a glass-ceramic mixture that, together with metallization pastes made from silver (Ag), silver-paladium (AgPd) or gold (Au), is fired at a relatively low temperature that is below the melting point of the metallization pastes.
- 20. (New) The method of Claim 1, wherein a nickel bath is not used and a gold bath is not used, and wherein the low-temperature co-fired ceramic (LTCC) is a glass-ceramic mixture that, together with metallization pastes made from silver (Ag), silver-paladium (AgPd) or gold (Au), is fired at a relatively low temperature that is below the melting point of the metallization pastes.
- 21. (New) The method of Claim 20, wherein:

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in the depositing of the layer of the second metal, palladium is deposited at a ratio of from 0.1 to 50% percent by weight of the alloy,

in the depositing of palladium, the palladium is deposited in such a way that a concentration of greater than 20% percent by weight palladium in the alloy results, and

the firing is performed at a temperature between 830 and 870°C.

22. (New) The method of Claim 21, wherein the seeding and the depositing are performed according to an electroless procedure, and the firing is performed at a temperature of 850°C.